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**FINAL
PROGRAM**



CBRNe

CONVERGENCE

3rd Annual *CBRNe World* Conference and Exhibition
2-5 November 2010,
Rosen Plaza Hotel, Orlando, Florida



Growing closer, staying distinct: merging civilian and military response to CBRN and IED threats

Speakers confirmed to date include:

- ◆ Brigadier General Les Smith,
CO 20th Support Command
- ◆ Brigadier General Jess Scarbrough,
JPEO CBD
- ◆ Lt. Col. Paulo Malizia,
Chief CBRN Division, Brazil
- ◆ Dr Vahid Majidi,
Director WMD Directorate, FBI
- ◆ Dr Christopher Barnett,
R&D Director, Genencor
- ◆ Commandant Ray Lane,
Chief EOD Instructor, Irish Defence Forces
- ◆ Supdt. Alan King,
CBRN Coordinator, Met Police, UK
- ◆ Asst. Chief Michael McClary,
Las Vegas Metropolitan Police
- ◆ Lt. Col. Jaroslav Bartos, Commander
Afghanistan LRU, Czech Army
- ◆ Chief Bob Ingram,
Fire Department New York
- ◆ Sgt. Troy Glassel, EOD & Technology
Section Special Support Unit, RCMP
- ◆ Frank Kaemper, Project Officer
Protect, European Defence Agency
- ◆ Col. (ret.) Gili Shenhar,
Former Head of Doctrine,
Israeli Homefront Command
- ◆ Dr Jose Luis Sagripanti, Edgewood
Chemical and Biological Center
- ◆ Joe Miller,
Director of Strategy, Policy, SOCOM

- ◆ Vil Mirzayanov,
Novel chemical agent expert
- ◆ Krysztof Paturej,
Director Special Projects, OPCW
- ◆ Dennis Fitzgerald,
Medical Director, ASPR
- ◆ Dr Randall Kincaid,
Scientific Director, TMT

Supporting partner organisations



CBRNe Convergence: Unique Benefits

- Programme planned by Gwyn Winfield, Editor of *CBRNe World* magazine
- Expert speakers from Europe, North America, South America, SE Asia and the Middle East, chosen for their insight and threat: allowing you shortcuts to best practice.
- Pre-Conference Workshop – hosted by TMT, ASPR and CBMS.
- *CBRNe World's* global brand, bringing delegates from over 30 countries together annually.
- Hear from the best civil and military organisations about how their recent attacks, exercises and research is improving their CBRN defence capability.
- Streamed sessions allow you to choose the presentations that fit the needs of your organisation.
- Poster presentations, so that you can appreciate some of the developments in science and technology.
- Final day capability exercise – Dynamic CBRNE exercise utilising a wide range of civilian and military assets. A multi-threat exercise that will bring hazmat, CBRN, EOD and tactical units together.
- Understand how you can bring civil and military forces together in such fields as CBRN, EOD and hazmat, to better prepare for the challenge.
- CBRNE exhibition of over 70 companies. Equip your organisation with some of the leading technology available.
- Icebreaker and reception to allow you to maximize your networking potential.

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CBRNe CONVERGENCE

Conference Programme

Updates to the programme can be viewed at
www.icbrnevents.com

DAY ONE November 3

08.00 – Registration and Coffee

08.50 – Chairs Welcome, Major General (Ret) Steve Reeves

09.00 – **WMD – an FBI priority**

- Why the fuss about a White Powder Letter?
- Synthetic Biology – the impact of new technology
- Trends in WMD from the FBI perspective
- Counterproliferation – the Global initiative

Plenary: Dr Vahid Majidi, Assistant Director, WMD Directorate, FBI

09.30 – **Training the Responders**

Plenary: Dennis Fitzgerald, Medical Director, Counter Narcotics & Terrorism Operational Medical Support, ASPR

10.00 – **Promoting Chemical Security and safety**

- OPCW role in providing increased assurance in security
- The role of OPCW as a platform of national support
- Promoting OPCW's chemical security best practice
- Working with member states, chemical associations and industry

Plenary: Krzysztof Paturej, Director Office of Special Projects, OPCW

10.30 – Brigadier General Les Smith, CO 20th Support Command

11.00 – 20th SUPCOM on site display to further illustrate their unique capability and Coffee sponsored by RSDecon

STREAM A

'Home' Game

11.45 – **The ARMOR Task Force**

- CBRNE Terrorism with Criminal Intent
- Fusion CBRNE Integration
- Overall Structure of Task Force
- CBRNE Capabilities; Future of CBRNE Related Terrorism

Assistant Sheriff Michael McClary, Las Vegas Metropolitan Police Department

12.30 – **V2010**

- The world comes to Vancouver
- Security vs Event
- Personnel and equipment
- Phases. Venue sweeps, Olympic games, Para games

Sgt. Troy Glassel, EOD & Technology Section Special Support Unit, RCMP

STREAM B

'Away' Game

11.45 – **Enhancing European CBRN countermeasures**

- Identifying European capability requirements based on current challenges
- Refocussing post-incident response to pre-incident – shifting the centre of gravity to prevention
- Enhancing situational awareness
- Shaping civil-military cooperation
- Bio Edep: proof of principle

Frank Kaemper, European Defence Agency, Project Officer: Protect

12.30 – **The New Normal - Convergence of Irregular Warfare & WMD**

- Description of Irregular Warfare and WMD-Terrorism
- Linkages and Strategic Recommendations; Concepts for Deterring Non-State Actors
- Counter WMD in Irregular Environments; Security Force Assistance

Joe Miller, Director Strategy, Plans and Policy, SOCOM. USA

13.15 – 14.15 Lunch and exhibition

STREAM C

Training

14.15 – **New Developments in CBRN Training**

- Training the CBRN Warrior alongside coalition partners
- Courses availability to international partners
- US Army CBRN Vision

Colonel Phil Visser, Commandant US Army CBRN School

15.00 – **PlumeSIM – A cost effective, portable table top and field exercise CBRN training system**

- Making classroom CBRN training more exciting to enhance the learning experience
- Using table top exercises to maximise the impact and benefit of field exercises
- After action review – gauging effectiveness of instruments and decision making
- Using simulators to reduce operating costs and availability of real detectors to train

Steven Pike, MD, Argon Electronics (UK) Ltd

STREAM D

Procurement

14.15 – **Enzymatic Decontamination: A Force Multiplier**

- Enzymatic decon as a safe, versatile decon solution for all platforms
- Enzymes offers a total decon solution for all chemical and biological warfare agents
- Military hardening of enzyme to create a total decon solution

Christopher Barnett, Director-Applications R&D and Technical Service.

Genecor International. USA

15.00 – **The Joint Program Executive Office for Chem Bio Defence**

- Introduction and Current Mission
- Transformational Medical Technologies Initiative
- Trail Boss System, Functions, and Activities
- International Cooperation and Sales
- Fielded and Available CBRN Equipment

BG Jess Scarbrough, JPEO CBD. USA

15.45 – 16.15 Coffee – sponsored by RSDecon and exhibition

STREAM E

Critical Infrastructure Protection

16.15 – **Developing the French Fire Brigade's CBRN Capability**

- Paris as a soft target: civilian, military, political, economic and financial headquarters
- Providing a swift mass-decon with new tools and tactics
- Developing inter-services collaboration on the spot and in the operational command posts
- Enhancing inter-services learning and training
- Paris' 'declassification' of the national doctrine: "Yellow Plan"

Major Christophe Libeau, Director Hazmat and CBRN Training Center, Paris Fire Brigade, France

17.00 – **Future Expeditionary ColPro Solutions**

- Developing true expeditionary products and solutions
- Full complexing and integration of products
- Using CONOPS to drive design features

Carl Pates, VP, CBRN Systems. HDT Engineered Technologies

STREAM F

Risk Management

16.15 – **Availability of medical counter-measures present challenges and ways ahead**

- Ease of manufacturing and delivery of weaponized anthrax and its consequences
- Anthrax as a bioterrorism weapon
- Availability of medical counter-measures: a responsible defence policy

A. Thomas Waytes, MD, PhD, VP Biodefense Operations. Lansing Inc. USA

Allen M. Shofe, Senior Vice President, Public Affairs, Emergent BioSolutions; Chairman, International Security & Biopolicy Institute (ISBI)

17.00 – **The Israeli approach**

- The Israeli approach for preparing to a real threat: war vs. terrorist
- The need for an comprehensive system - doctrine, courses, training, command & control...
- Risk management

Col. (ret.) Gili Shenhar, Former Head of Doctrine, Israeli Homefront Command

17.45 – Drinks Reception kindly sponsored by the Gold Sponsor



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09.00 – **ISAF's Multinational CBRNe Defense Experience**

- Command and control, unit structure of CZE Light Reconnaissance Unit (LRU)
- Main tasks, operation history of CZE LRU in Afghanistan
- Principal elements of LRU • Team findings from Afghanistan • Conclusions

Plenary: Lt. Col. Jaroslav Bartos, Czech, Commander CBRN LRU

09.30 – **Overview about Brazilian Army NBC defense capability**

- Responsibilities of CTEx in CBRNE
- Future Trends in NBC Defense in Brazil

Plenary: Lt. Col. Paulo Malizia, Brazilian Army

10.00 – **MPS CBRNE Capabilities**

- MPS CBRNE Capabilities - to include the wider London and National perspectives
- Origins, white powder incidents London, to include MAIAT, DCU & MPS EOD
- Foundations - LESLP, Guardian, London Resilience
- Home Office – Building on Model Response and PORP
- 2010 - 2015 - The future of MPS CBRNE and its relationship with Major Incident Management

Plenary: Superintendent Alan King, CBRN Coordinator, Met Police. UK

10.30 – Coffee – sponsored by RSDecon



STREAM G

Detection

11.00 – **Protection of Airports Against CBR Agents**

- Overview of equipment and CONOPS developed primarily for a bioaerosol threat
- Results from tracer studies showing the spread of tracer aerosol will be shown
- System performance is assessed against ability to detect the release
- Ability to detect the release in time to mitigate the impact of the release
- Ability to determine the exact nature of the agent

Chuck Call, VP of ThreatSense, ICx Technologies. USA

11.45 –

- Why France launched an integrated CBRN system in 2009
- Pre 2009 France launched a bio detection system: Detect Bio
- What are French CBRN defence perspectives and needs for middle term future
- Future European perspectives: France is strongly committed to the European Bio Edep

Dr Bruno Bellier, DetectBio Programme Manager, DGA, and

Lt. Col. Marc Caudrillier, Programme Officer Joint Staff. France

STREAM H

Decontamination

11.00 – **The truth behind anthrax dissemination and decontamination**

- Incorrect sizing and density results in incorrect dispersal and sample collection
- Anthrax might be rough but is not impervious to several current decon practices
- Survival studies can predict anthrax's variable infectivity time
- An artificially engineered simulant for anthrax can facilitate detection methods
- A new, disposable, self-contained bio-detection device

Dr Jose-Luis Sagripanti, Senior Scientific Advisor, ECBC. USA

11.45 – **RSDL: Toxic Industrial Chemicals Study Program in cooperation with the Canadian Department of National Defence (DND)**

- Bracco Diagnostics Inc's funded research on contamination technologies
- Research data on the reactions between RSDL and various CW and TICs
- Addressing multiple decontamination scenarios and threats
- RSDL's indication for use through a program of in-vitro and in-vivo efficacy studies
- Study design, preliminary data, partners and expected completion of the main milestones.

Laura Cochrane, Program Director, Technology Development. RSDecon. USA

12.30 – 13.30 Lunch and exhibition

STREAM I

Counter IED

13.30 – **Effects and Countermeasures**

- Growing CBRN threat drives demand for advanced personal-protection technologies
- Limited shielding of current personal-protection technologies
- Research on finding effective solutions to protect against the growing threats
- New Demron, the only fabric to provide universal protection with the highest shielding
- Increasing nuclear threats find governments and first responders turning to Demron

Ronald F. DeMeo, M.D., MBA. President and Chief Executive Officer, Radiation Shield Technologies. USA

14.15 – **The Irish experience of IEDs**

- Overview of Irish Defence Forces
- Improvised explosive device disposal – flexible response / emphasis on future threat
- CBRNE – Latest developments in tactics, techniques and procedures
- C-IED - Ex. Saoirse Nua in Afghanistan 2007 - lessons learned apply today
- Brief on First C-IED/IEDD international course – Exercise Green Zone – May 2010

Comdt Ray Lane. Irish Defence Forces. IRL

STREAM J

Counter Terrorist

13.30 – **Decontaminating fingerprints?!**

- CBRN contamination and actionable forensic information
- CBRN and EOD/IED Forensic traces
- Fingerprints
- Collaboration with TNO
- Decontamination efficiency

Tiest van Woerkom, Forensic Scientist:

CBRN Project, Netherlands Forensic Institute

14.15 – **The FilmArray System for CBRNE and Pandemic Surveillance**

- The FilmArray a user-friendly multiplex PCR instrument
- Integrated sample prep with an automated protocol requires minimal "hands on" time
- The BioThreat pouch test for Category A and Category B pathogens
- Clinical application for testing viral and bacterial respiratory pathogens

Todd Ritter, Corporate Development Officer, Idaho Technology Inc. USA

15.00 – 16.00 Poster Session and Coffee, sponsored by RSDecon

STREAM K

Hazmat vs CBRNE

16.00 – **FDNY Center for terrorism and disaster preparedness**

- 3 branches: WMD, Intel, Exercises
- WMD, Intel, and exercise planning and response
- Review of FDNY action at Times Square
- Fireguard and chemical suicides

Chief Bob Ingram, Fire Department New York. USA

16.45 – **Remote Physiological Status Monitoring in CBRN Operations**

- Applications of PSM focused on the CBRN responder
- Command & Control
- Rehabilitation
- Training

Dr Brian Campbell, Chief Medical Officer, Zephyr Technology. USA

STREAM L

Future CBRN Responder

16.00 – **Industries responsibility regarding PPE products**

- Logistics efficiency during SSA's, SSE's and confined space ops
- How to use hybrid BA's and SSE's and SSA's
- How to use air management systems down range
- COLPRO products to increase flexibility and logistics efficiency
- The benefit of pre-filters

Greg Farmerie, Regional Director. Draeger Safety. USA

16.45 – Title TBC

Dr Dana Perkins, Senior Science Advisor, ASPR. USA

17.30 – 18.00 Plenary: **Vil Mirzayanov**, 'Godfather of Next Generation Chemical Agents: 'Novichoks.'

18.00 – 18.15 Introduction to Cristanini, Stefano Miorotti, CBRN Expert Cristanini. Italy

18.15 Conference End

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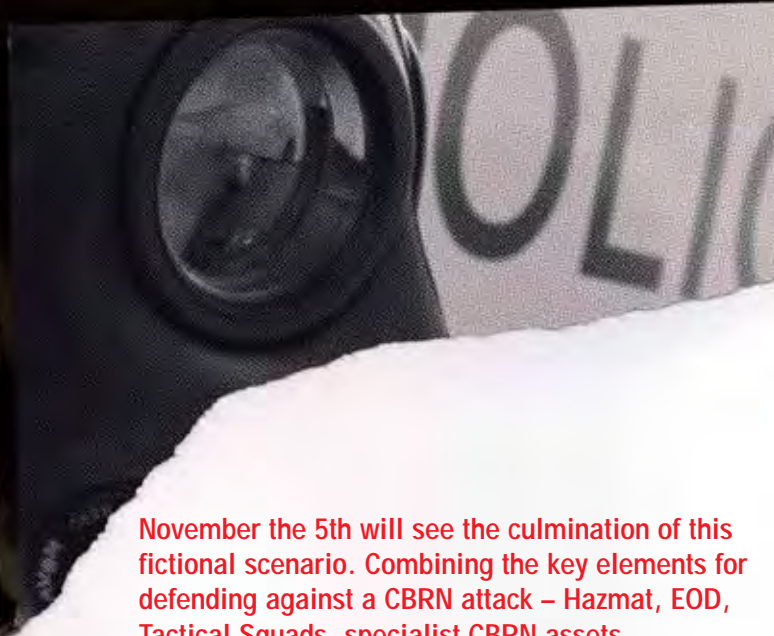
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violence

Many dead from London 'Dirty Bomb'

The blast was unexpected and devastating. The crowd of families waiting patiently at Wally World had thought nothing of the idling Ice Cream van, until it detonated, spewing its cargo of death into the children, mothers and fathers looking for a great day out. The explosion was not the worst of it, as the smoke cleared it became apparent that some of the wounded were not suffering from the force of the blast, but from some lethal gas that had been part of the payload. Police have not confirmed which poison gas was used, but sources in the Home Office have stated that it was likely to be some form of organo-phosphate – the same gases that Saddam Hussein used in Hallabjah. The exact death toll is not known, it is reckoned to be in the hundreds, but Police have said that it would have been far higher if a secondary device had exploded. Police bomb squads made safe the device which was in a car parked near the entrance to Wally World, sources suggest that the speed bumps by the entrance of the car park might have dislodged a component of the device which was aimed at the responding emergency services. 'If the Ambulance and Fire crews had been prevented from attending to the wounded,' said the Metropolitan Police's Chief Inspector David Levitt, "then we might be looking at a far higher death toll."

No group has yet come forward to claim the device, there was no telephone warning, but the sophistication of the 'chemical-IED' and the use of secondary devices to target the first responders does suggest an Al Qaeda Cell. It is thought that the attack against Wally World was a direct attempt to force the corporation to re-think Wally World Arabia, due to open later this year: other Wally World sites in Orlando, San Diego and Pensacola



November the 5th will see the culmination of this fictional scenario. Combining the key elements for defending against a CBRN attack – Hazmat, EOD, Tactical Squads, specialist CBRN assets – delegates will get a chance to see some of the most competent forces in the world. Bringing together members of the US WMD community and demonstrating the cohesive efforts of local, state and federal resources to combat and defeat the WMD threat. This dynamic exercise will display the capabilities of local, state and federal agencies including: FBI, the 44th Civil Support Team, Orange County Fire and Police and City of Orlando Fire. Building on successful exercises in the Netherlands and Romania, CBRNe Convergence will bring you what we believe to be the biggest dynamic exercise that we have ever presented.



Medical Countermeasures and CBRN – from early research through to licensure.

Medical Countermeasures are, quite literally, looking for the CBRN panacea. Spanning everything from improved efficacy in existing vaccines through to 'one drug – many bug' and boosted immune response, the work that the US is doing is leading the world. CBRNe Convergence has got together a panel of some of the US' leading experts together to talk about the work that they are doing on helping fund early basic research all the way through to licensure and production. The President has made medical countermeasures one of the most important objectives of a variety of government departments – from the Department of Health and Human Services through to the Department of Defense – and their work is truly world beating; without parallel in Europe or Asia.

Workshop programme

12.30 – Registration

13.00 – **TMT and Medical Countermeasures**

Dr Randall Kincaid, Ms Heather Wargo

14.30 – Coffee

15.00 – **CBMS and Medical Countermeasures**

Col. Dr Millard, Lt. Col. Edward Clayson

16.00 – **BARDA and Medical Countermeasures**

Gary Disbrow

17.00 – Workshop End

18.30 – Conference Icebreaker

The Workshop will start with the DoD's programs, the Transformational Medical Technologies Program (TMT), followed by the Chemical and Biological Medical Systems (CBMS) and then by the Department of Health and Human Services (DHHS). The TMT Program Office is physically located at the Defense Threat Reduction Agency (DTRA) in Fort Belvoir with personnel matrixed from the Joint Science and Technology Office - DTRA and Joint Program Executive Office - Chemical and Biological Defense, with oversight from the Office of the Secretary of Defense (more information on TMT: www.tmti-cbdefense.org).

This will be followed by a presentation from the Department of Health and Human Services (DHHS) on the work that they have been doing on medical countermeasures. Established by the pandemic and All Hazards Preparedness Act of 2006, the U.S. DHHS' Office of the Assistant Secretary for Preparedness and Response (ASPR) is charged with leading the nation in preventing, preparing for, and responding to the adverse health effects of public health emergencies and disasters. ASPR collaborates within HHS and with other federal, state, local, tribal and international officials and the private healthcare sector to ensure a unified, integrated approach in preparedness and response. ASPR serves as the Secretary's principal advisory staff on matters related to bioterrorism and other public health emergencies.

The Workshop will be held on the afternoon of the 2nd of November, within the Rosen Plaza – venue for the entire CBRNe Convergence conference – and is on a strictly first come, first served basis.

Biographical Details

Dr. Randall Kincaid received both his undergraduate (B.S. in biology) and graduate degrees (Ph.D. in pharmacology) from Stanford University. In 1982, Dr. Kincaid was granted a tenured faculty position at the National Institutes of Health (NIH), and in 1987 he became the Chief of the Immunology Section in the National Institute on Alcohol Abuse and Alcoholism. In 1995, Dr. Kincaid founded and directed Veritas, Inc., a biotechnology consulting company. Under his direction, Veritas, Inc. developed numerous collaborative relationships in support of biodefense and infectious disease research, including experimental programs on botulinum toxin, *C. difficile*, and malarial vaccine development. Dr. Kincaid left Veritas, Inc. in early 2009 to join TMT as its Scientific Director.

Ms. Heather Wargo, a microbiologist with DTRA, serves as the Medical Countermeasures Portfolio Manager for TMT. She is responsible for a team of scientists and project managers dedicated to strategic planning, management, and execution of medical product developments for emerging and genetically engineered biothreats spanning basic research through Food and Drug Administration licensure. Prior to joining TMT, Ms. Wargo held two positions within DTRA; Senior Science and Technology Manager within the Joint S&T Office for Chemical and Biological Defense (JSTO-CBD) Medical Division and Program Manager for JSTO-CBD Acquisition Support.

Colonel Charles B. Millard is the Joint Project Manager for the Chemical Biological Medical Systems Joint Project Management Office (CBMS-JPMO) located in Frederick, Maryland. In this role, he directs the Department of Defense's (DoD) organization for centralized research, development, acquisition management, and joint service integration for all medical Chemical Biological Radiological and Nuclear (CBRN) Defense Systems. Colonel Millard is responsible for leading joint service, interagency, international teams of scientists, and acquisition professionals in developing, acquiring, and fielding U.S. Food and Drug Administration (FDA)-approved CBRN medical countermeasures and diagnostics. He is also the DoD's Head of Delegation for the CBRN Medical Countermeasure Coordinating Team whose nation members are the U.S., United Kingdom, Australia, and Canada. His past acquisition experience includes serving as a Program Analyst with the Office of the Deputy Assistant to the Secretary of Defense (Chemical and Biological Defense) in the Pentagon, as well as Deputy Director for the Plans, Programs, Analysis & Evaluation Directorate of the Headquarters, U.S. Army Medical Research & Materiel Command (MRMC), Fort Detrick, MD. Colonel Millard assumed his current role as Joint Project Manager on 6 August 2010.

Lt. Col. (Ret) Edward T. Clayson, is the Deputy Joint Project Manager for the Chemical Biological Medical Systems Joint Project Management Office, he assists the Joint Project Manager in the daily management of the Department of Defense's (DoD) organization responsible for the centralized research, development, acquisition management, and joint service integration for all medical CBRN Defense Systems. He has authored or co-authored 40 articles published in scientific journals or textbooks and has been an invited speaker at several national and international meetings. Dr. Clayson's acquisition assignments included serving as a Product Manager or Acting Product Manager in four Product Management Offices (PMO), as well as serving as the Deputy Project Manager in two PMOs. Dr. Clayson retired from active duty in January 2009, and was selected as the Deputy Joint Project Manager for the Chemical Biological Medical Systems Joint Project Management Office in September, 2009.

Dr. Gary Disbrow joined BARDA in January of 2007 and began working on the smallpox vaccine program. Dr. Disbrow was named as the Chief of Smallpox Medical Countermeasures and played a key role in awarding a contract for the modified vaccinia Ankara (MVA) vaccine. MVA is a smallpox vaccine developed for immunocompromised individuals who are contraindicated for the currently available live vaccine, Acam2000. The MVA contract was the first PBS contract to use advance payment and milestone payments and serves as a template for all future PBS contracts. Dr. Disbrow accepted the position of Deputy Director CBRN Division of Countermeasures in October of 2008 and has been overseeing the budget and strategic planning for both advanced research and development and PBS efforts. BARDA's advanced research and development efforts have grown significantly with nearly 50 contracts and a yearly budget projected to be \$476 M in FY 2011. Prior to joining BARDA Dr. Disbrow was an Assistant Professor of Oncology and Pathology at Georgetown Medical Center where he worked on the development of the human papillomavirus vaccine (HPV) which is currently licensed and available in the US.



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Genencor International

Genencor, a division of Danisco A/S, is a leading industrial biotechnology company that develops innovative enzymes and bioproducts to improve the performance and reduce the environmental impact of the cleaning, textiles, fuels and chemicals industries. Using the power of biotechnology, Genencor has also developed enzymes to break down man-made and naturally occurring hazardous agents.



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The company's enzymes are used in applications as diverse as laundry detergents, producing ethanol, and 'stone washing' textiles. Genencor's market opportunities extend to developing and delivering products that address safety and protection issues facing the world today in the biodefense, decontamination and bioremediation areas. For more information visit www.biosafetyenzymes.com

Silver Sponsors

Argon Electronics is the market leader in the design and manufacture of simulation systems for training in the use of chemical and radiological detectors.

– Hand-Held Chemical Agent Monitor and Personal Alarm Simulators – Chemical Detector and Identifier Simulators – Radiological Detection Simulation – PlumeSIM™ Wide Area Simulation for Instrumented CBR Training – NASCAP™ Networked Remote Reporting and Alarm Activation Management for CBRN Detectors.



Dräger is an international leader in the fields of medical and safety technology. The safety division offers customers consultancy, products and services for an integrated hazard management, especially for personal and facility protection. The current portfolio comprises stationary and mobile gas detection systems, respiratory protection equipment, fire training systems, professional diving equipment as well as alcohol and drug detection units.



Emergent BioSolutions Inc. is a profitable, multinational biopharmaceutical company dedicated to one simple mission - to protect life. The company focuses on the development, manufacture and commercialization of biologic products, consisting of vaccines and therapeutics that assist the body's immune system to prevent or treat disease. Emergent's marketed product, BioThrax® (Anthrax Vaccine Adsorbed), is the only vaccine licensed by the U.S. Food and Drug Administration for the prevention of anthrax. BioThrax is not authorized for use outside of the United States and India. In addition to BioThrax, the company has multiple clinical and preclinical product candidates that are designed as medical countermeasures for use against biological agents that are potential weapons of bioterrorism and biowarfare. To view the company's product portfolio please visit www.emergentbiosolutions.com. The company currently employs approximately 600 people with offices in the United States, the United Kingdom, Germany and Singapore.



HDT Engineered Technologies is a leading provider of mobile-military and emergency response solutions including rapidly-deployable tactical shelters, highly engineered environmental control and power equipment, and nuclear, biological, and chemical collective protection systems. Our products are currently serving the U.S. and allied military units deployed worldwide.



ICx Technologies is a leader in the development and integration of advanced sensor technologies for homeland security, force protection and commercial applications. By incorporating detection instruments that sense and identify chemical, biological, radiological, nuclear and explosive (CBRNE) threats, security personnel are provided with superior awareness and actionable intelligence. The detection instruments from ICx are compact, portable and simple to use. Their sensitivity and accuracy are among the best available while being designed for use in the field. In addition, many of these devices can be used to detect, locate and identify CBRNE threats. For more information about ICx, visit www.icxt.com



RS Decon is a brand of products manufactured by the Healthcare Protective Products Division (HPPD) of Bracco Diagnostics Inc., the exclusive global manufacturer and marketer of RSDL. RSDL is a patented, broad spectrum skin decontamination product intended to neutralize or remove chemical warfare agents or T-2 toxin from the skin. It is packaged in an easy to open tear-open pouch and provides emergency service personnel and military organizations with real defense from the dangers of exposure to chemical and biological weapons. www.rsdecon.com



Bronze Sponsors

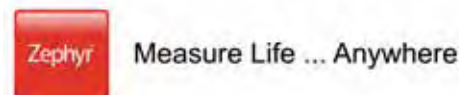
Idaho Technology manufactures the most reliable and sensitive BioThreat Detection instruments. Known for its history of releasing innovative instruments, Idaho Technology produced the first ruggedized PCR-based instrument in 1999, the R.A.P.I.D.®, making possible lab quality results in the field. Idaho Technology's new system, RAZOR EX, again revolutionized biological detection by creating the first hand-held, ruggedized PCR-based detection system. This easy to use system requires minimal sample prep—ideal for use by first responders, militaries, and security personnel.



Radiation Shield Technologies is a global leader in research, design, production of personal-protection technologies. Its patented Demron, which surpasses current NBC suits, is the world's first and only material providing total nuclear, radiation, chemical, biological protection. Manufactured into suits, blankets and other armor, Demron has NFPA Class 2 Certification for Protective Ensembles for First Responders to CBRN Terrorism Incidents. Demron is used worldwide by governments, NATO, the National Guard and US Navy, among others. www.radshield.com



Zephyr Technology is a leader in real time physiological status monitoring solutions for the Defense and First Responder Markets. Zephyr's BioHarness™ systems offer visibility into the physical status of personnel deployed in the most challenging environments, in field operations or in training. Zephyr provides real time data on individuals and teams that can increase situational awareness and improve safety and mission effectiveness. www.zephyr-technology.com.



Exhibitors – to exhibit please contact david.levitt@cbrneworld.com

ABB sets the standards in developing and manufacturing innovative FT-IR Spectro-radiometry solutions in the field of atmospheric sounding, military targets IR signature characterization and gas detection. ABB offers advanced field-deployable sensors serving in the standoff detection of Chemical Warfare Agents and other chemical threats. ABB also develops solutions with airborne and spaceborne optical instruments, infrared calibration systems, and hyper-spectral imaging spectroradiometers.



Ahura Scientific develops rugged, ultra-compact systems for rapid chemical identification directly in the field. Products include FirstDefender (Raman) and TruDefender FT (FTIR) for solids and liquids and TruDefender FTG for headspace gas identification. All offer exceptional portability and performance and are easy to operate in bulky protective gear. www.ahurascientific.com



AirBoss-Defense is world renowned for the manufacture and supply of CBRN Personal Protective Equipment (PPE). AirBoss-Defense also manufactures Fire Fighting and Extreme Cold Weather (ECV) footwear, multi-purpose safety boots and a wide range of industrial extruded and moulded rubber engineered products for the defense market.



Alexeter introduced the Guardian Reader System™, the first comprehensive solution for field detection & identification of biological warfare agents. Offering 15-minute field results for the detection of anthrax, ricin, botulinum toxin, (SEB), plague, tularemia, brucella & orthopox, Alexeter has also introduced the first hand-held detection device, the Defender TSR. www.alexeter.com



Alluvium: HazMasterG3: the most comprehensive mobile CBRNE/IED/HME decision aid available - and the only system of its kind to have earned US DHS certification and designation as an approved anti-terrorism technology. Everything starts with identifying the threat - and HazMasterG3 provides unsurpassed threat identification and fully integrated accredited response guidance.



ANP Technologies: Spun out from the U.S. Army Research Lab in 2002, ANP Technologies®, Inc. offers NIDS® multiplexed Rapid Assays with wireless handheld and automatic readers for biodefense and medical diagnostics, NIDS® HyperBind® ELISA plates for research and drug discovery, and nano-encapsulation-based Protein Drug Delivery-related products.



Air Techniques International is a recognised global leader in the development, manufacture and service of equipment for testing high purity air filters and protective masks.

ATI's comprehensive services include a DOE- certified filter test lab for both filter and mask testing. We also provide full life cycle repair and maintenance of all our test equipment in our ISO-9001 facility.



Avir Sensors is offering the ChemSight®, a fixed security chemical detector. The ChemSight® is an open-path monitor of long lines of sights. It can detect and identify nearly instantaneously multiple chemicals and interferents. It is robust, easy to install, operate and update. It requires no consumables and low maintenance.



Avon Protection Systems, part of Avon Rubber p.l.c., is the world leader in advanced CBRN respiratory protection solutions. It supplies the world's military, law enforcement, first responder, emergency services and industrial markets. Avon Protection has a unique capability in CBRN protection based on a range of advanced CBRN technologies in respirator design, filtration and compressed air breathing apparatus



Bertin Technologies is a French company specialised in Chemical and Biological Warfare agents detection equipment. Bertin products offer an appropriate answer to the complex threats of warfare allowing CBRN teams to undertake their mission safely.



Blauer Manufacturing Company: Blauer's Homeland Defender® line of CBRN protective ensembles is made with GORE® CHEMPAK® fabrics and certified to NFPA 1994. Homeland Defender® suits are form-fitting, light weight, and tough enough for the most physically demanding hot-zone and warm-zone missions. Serious Protection. www.blauerhomelanddefender.com



Bruker Detection Corporation is a worldwide leader in supplying detection instruments, products and systems for substance detection and pathogen identification in security, defense, and law enforcement applications. www.bruker-detection.com.



Calgon Carbon Corporation: Calgon Carbon Corporation, the Worldwide leader in the production and development of activated carbon, offers a wide range of products in both granular and cloth form for military protection. Applications include CBRN clothing, respirators and decontamination wipes for both military and industrial use. Use the power of activated carbon from Calgon Carbon for your advanced military protection needs.



CBI POLYMERS: DeconGel™ is a proven, tough, professional, military-grade, safe, water soluble, and environmentally friendly product for extreme, hard-to-clean contamination remediation challenges for any industry. It is exceptionally effective against radioactive isotopes and chemicals but has the strength to pull off any job. Go to www.decongel.com for more information.



CBRNe World magazine, organiser of CBRNe Convergence serves the information needs of professionals around the world charged with planning for or responding to a CBRNE threat or incident. Editorial content is a combination of qualitative and researched news, interviews, articles, surveys and regular columns. Meet our editorial and advertising staff and learn of our plans for 2011.



Clordisys Solutions, Inc is a worldwide leader in biological decontamination. Utilizing chlorine dioxide gas, Clordisys offers the safest and most effective method for decontamination available today. Portable CD gas generators, as well as sterilizers and pass-through chambers are available. Decontamination services are also offered on a one-time or routine basis.



Dugway Proving Ground (DPG) is the world's premier destination for chemical and biological defense testing. As the US Army's designated Major Range and Test Facility Base for chemical and biological defense-related programs, DPG is the lead tester for US and allied chemical and biological defense equipment and NBC contamination survivability of defense materiel.



Coastal Environmental Systems has manufactured the only portable weather stations designed specifically for CBRNE, HazMat & First Response: WEATHERPAK®. Both WEATHERPAK® and C-5 SAM™ weather stations automatically update plume modeling software, and are designed to withstand the rigors of public safety, military, wildland fire and industrial applications. www.coastalenvironmental.com



Environics makes gas & vapor detection products & turn-key CBRN protection networks for civilian & military defense. We offer handheld to permanent fixed detection solutions to protect individuals, buildings, metros, cities & nations from CBRN threats. We also provide decontamination solutions, vehicle protection, mobile CBRN labs, bomb & chemical-proof shelters. www.environicsusa.com



CoBRA is inexpensive, easy to use Decision Support Software for full spectrum CBRNE incident management. CoBRA provides access to databases, blast standoff distance, interactive tools, check lists, forms, Command Board and calculations in the responders hand, accessible either on laptop or blackberry. CoBRA software, the First Responders First Choice. www.cobrafirstresponder.com



First Line Technology, LLC is a small business supplier of Out of the Box Solutions for first responders and the military that has established itself as a leader in product development and deployment with innovative, simple solutions like heat-activated PhaseCore Cooling Vests and the AmbuBus, Bus-Stretcher Conversion Kit.



Cristanini is a worldwide leader in the research, development and production of CBRN decontamination/detoxification systems, machines and products. Cristanini has acquired a reputation of manufacturing small, medium and large scale CBRN systems and mobile field stations for a simultaneous decontamination/detoxification of personnel, equipment, sensitive material, personal equipment, vehicles and terrain. Cristanini experience and know-how is the result of years of dedicated research, applied engineering and the production of equipment and accessories with innovative solutions for CBRN detoxification/decontamination. The R&D program is conducted in cooperation with University Institutes, including the Department of Chemical Engineering Processes of the University of Padova, Italy and Military Labs around the world. The state-of-the-art R&D is validated by 25 patents. www.cristanini.com



Force 1 Decon (FID) equipment provides operators with a highly portable, modular and scalable tactical decontamination capability. Designed as a 'tool kit of parts', FID equipment is easily configured and scaled to quickly provide a 'best-fit' solution for operations requiring rapid personnel decontamination.



Geomet offers a full range of specialized products and services necessary for the development of CBRN personal protective systems. Geomet and **Remploy Frontline** have recently joined forces to supply the best CBRN equipment needed by US military and public safety personnel.



General Dynamics Armament and Technical Products (GDATP) is a proven systems integrator of defense products for all branches of the U.S. Department of Defense and the Ministries of Defense of over 30 allied nations. GDATP offers an advanced line of point and standoff chemical and biological agent detectors and ground based counter-measures systems. Our chemical detection products include the Standoff Chemical Agent Detector and the hand-held JUNO™ system. Biological detection systems include the Joint Biological Point Detection System (JBPDS) and the Biological Agent Warning Sensor (BAWS). Our CBRNE solutions have been field-tested and are main street-capable.



Germfree Laboratories has been engineering and building biological and chemical containment equipment for the military, research, and healthcare fields since 1962. Germfree mobile laboratories and high containment systems have been purchased by more than 6,000 institutions and companies in over 60 countries worldwide!



Honeywell Safety Products (HSP), a global manufacturer of leading personal protective equipment (PPE) brands such as North by Honeywell, Fibre-Metal by Honeywell, and Servus by Honeywell offers a full range of quality personal protection equipment (PPE), including respiratory, hand, footwear and clothing, welding, head, first-aid, hearing, eye/face, fall protection, lockout/tag out, and traffic safety products.



IB Consultancy and Hotzone Solutions are expert CBRNE service providers, providing consultancy, training, sales support and project management for CBRNE first responders, military, policy makers and industry. Our clients include the EDA, The Netherlands government, OPCW and many others. While the focus of Hotzone Solutions is on training, IB Consultancy has its focus on consultancy. We invite you to visit our stand or website.



Swiss company, **Hygie-Tech** has developed a new powerful CFD simulator for CBRNE applications: "HG_Flow Protect".

Using proprietary original algorithms, the software is adapted to standard computers, with very short calculating time, allowing routine multiple simulations by engineers and officers. Prevention, action and decontamination plans are recommended in sensitive buildings.



INFICON has a portfolio of products aimed at detecting and identifying trace levels of chemical warfare agents, volatile organic compounds, toxic industrial chemicals, and non-toxic chemicals in air, water and soil. Fully portable, INFICON HAPSITE ER Chemical Identification Systems provide fast, accurate lab-quality results on-site to help you make critical decisions affecting life, health and safety.



Intelagard is a leading designer and manufacturer of powerful and effective tools for CBRN decontamination, fire suppression, and hazmat remediation. Intelagard equipment is designed for maximum usability and versatility. Use the same piece of equipment to decontaminate an office on Monday, suppress a fire on Tuesday, and clean up a hydrocarbon spill on Wednesday. From the Macaw backpack to the large-scale High Mobility Decontamination System, Intelagard has a system to fit your needs.



Kärcher Futuretech is the leading manufacturer of decontamination devices, agents, modules and systems. The company supplies decontamination systems for defence forces, relief organisations and rescue forces around the world. Thanks to its revolutionary technologies, Kärcher Futuretech develops and produces products for the most varying needs in the area of NBC defence in order to provide a prompt and effective decontamination of persons, vehicles, air and watercraft, weapons, clothing and equipment as well as sensitive material. The truck mounted TEP 90 in Germany as well as the delivery of the "Joint Services Transportation Decontamination System Small Scale" (JSTDS-SS) to the US Armed Forces via its partner **DRS Technologies** – are all references that speak for themselves.



Joint Program Executive Office for Chemical and Biological Defense: Mission: Provide Research, Development, Acquisition Fielding and Life-Cycle Support of Chemical, Biological, Radiological and Nuclear Defense Equipment, Medical Countermeasures and Installation and Force Protection Integrated Capabilities Supporting the National Strategies. Vision: An Agile, Results-Oriented, and Transformational Acquisition Enterprise Delivering Net-Centric, Modular, Tailorable and Multi-Purpose Capabilities to the Nation. www.jpeocbd.osd.mil



Lion Apparel is a leading supplier of personal protective equipment for first responders around the world. Offering a full line of CBRN protective ensembles, Lion is able to meet the mission-specific needs of fire, law enforcement and military organizations who require peace-of-mind protection against some of the world's most dangerous threats.



Developed by **Lockheed Martin Coherent Technologies**, the PROWLIR lidar system provides remote detection, ranging, tracking and high discrimination of biological and non-biological aerosol clouds with low false alarm rate. The system provides 24/7 surveillance and gives early warning of biohazards from a stand-off distance exceeding 5 km. This capability allows significant response time for improved Warfighter protection offered in a cost effective and easily maintainable system.

Coupled with advanced signature extraction and noise reduction algorithms, PROWLIR enables accurate analyses of bio-aerosol hazards. PROWLIR tested successfully at Dugway Proving Grounds in Utah and Eglin Air Force Base in Florida.

For additional information visit www.lockheedmartin.com/products/prowlir/



MDA's information solutions provides mission critical capabilities that support domestic and international defence and security challenges worldwide. From Earth orbit to the frontlines, MDA sensors, systems, and intelligence solutions for ISR deliver, from wide area surveillance to sub-metre target detection, recognition and tracking.



Mirion Technologies Health Physics Division provides a full range of instrumentation and engineering services for health physics applications and radiation monitoring systems for all nuclear facilities and civil defense markets. We are #1 in North America in electronic dosimetry. We are more than just a leader in technology. WE are also recognized for our outstanding customer support.



OptiMetrics, Inc. provides specialized research and engineering services to government and industry. Our primary focus is applying science and technology to protect and enhance the survival of soldiers on the battlefield. We analyze real-world military system and sensor performance, develop computer models and simulations of military systems, plan and create software applications for command and control system integration.



Safety Solutions and ATEC have been providing quality Hazardous Materials and Search and Extraction Training since 1996. With 200 instructors and operations worldwide this team of professionals is ready to provide you with the most advanced, Proboard accredited training programs available. Please contact us at info@safetysolutions.us or toll free 866.248.1050.



The leader in first responder field identification of samples for biothreat agents used worldwide by HazMat teams, law enforcement, federal, state, and local governments, and corporations. Developed BioThreat Alert® (BTAs) Kits which analyze suspicious samples for the rapid detection of Anthrax, Ricin, Plague, Botulinum toxin A and B, Staphylococcal enterotoxin B (SEB), Orthopox (the family of smallpox), Abrin, Brucella and Tularemia



The Naval Research Laboratory (NRL) operates as the United States Navy's full-spectrum corporate laboratory, conducting a multidisciplinary program of scientific research and advanced technological development directed toward maritime applications of new and improved materials, techniques, equipment, systems and ocean, atmospheric, space sciences and related technologies. NRL is located in southwest Washington, DC, with other major sites at the Stennis Space Center, MS; and Monterey, CA.



MKS Instruments. AIRGARD® FTIR-based air monitor by MKS can simultaneously detect, analyze and alarm on 50+ chemical warfare agents and toxic industrial chemicals in various environments. MKS Instruments, Inc. is a leading, global provider of technologies to power, control and measure advanced processes. Our served markets include homeland security, environmental monitoring, and others. www.mksinst.com



OWR is the worldwide leading manufacturer of CBRN decontamination systems and sole source provider of CBRN systems. OWR creates unique CBRN system packages, which includes not only Decontamination equipment, but also a complementary range of state of the art Detection and Protection Life Indicators to the need of our customers.



Saint Gobain: CBRN protective equipment. Single-skin NFPA 1991 and EN 943-1/2 ONESuit® product line – comfort, affordability and flash fire protection. NFPA certified ONEGlove® Hazmat one-piece gloves offer unsurpassed dexterity and protection. New Coretech™ barrier technology - the most advanced chemical protective fabric - providing affordable solutions for CBRN shelters, containment, and PPE.



Tex-Shield is the U.S. licensee of the unique SARATOGA® chemical protective technology. "The most trusted name in chemical protective garments in the world". Only SARATOGA® fabrics are qualified for use in the JSLIST chemical protective overgarment and the JPACE aircrew overall. Tex-Shield's other products include the HAMMER Suit®, chemical protective undergarments, gloves, footwear, and filtration media.



UTILIS S.A.S. has over 13 years of experience as a manufacturer and leading supplier of rapid deploy tactical shelters and integrated containers for military and civil applications. UTILIS shelter systems have been the choice of defence forces, civil protection organizations, rescue forces and the UN for their field operations.



Morphix Technologies is an innovator in color change technology. Morphix developed the Chameleon® with a grant from the US Navy managed by MarCorSysCom. Morphix revolutionized colorimetric technology to be rugged, resilient and water resistant. Additionally, Morphix has developed Residual Life Indicators and Time / Temperature indicators for military and commercial applications.



Paul Boyé Technologies is a worldwide leader in research, development and mass production of CBRN/F protective suits for Armed Forces and Civil Defence. In use within 38 countries, Paul Boyé CBRN protective suits have gained international recognition thanks to their high technological level. They have proven their superiority and comfort in the hardest climate. s.ziegler@paulboye.fr www.paulboye.com



Scott are leaders in the design and manufacture of Respiratory Protection Equipment (RPE). Their range includes military and civil defence masks and filters, powered breathing systems, self-contained breathing apparatus (SCBA) and escape sets. They are currently working on the General Service Respirator (GSR) contract for the British MoD, the M 2005 for the Finnish MoD and the End of Service Life Indicator Technical Demonstrator Programme for the UK MoD.



Transformational Medical Technologies (TMT): TMT was stood up by the Department of Defense to protect the warfighter from emerging, genetically altered and unknown biological threats. TMT partners with academic institutions and private industry to facilitate the discovery and development of a wide range of medical countermeasures through enhanced medical research, test and evaluation programs.



Wel-Fab, Inc have developed a new Lightweight Inflatable Decontamination System (LIDS) Chemical, Biological, Radiological, Nuclear, and High Yield Explosive (CBRNE) for use as field deployable Contamination Control Area (CCA) supporting USAF aircrew personnel decontamination processing procedures.



Morpho Detection, Inc., part of Morpho, a business of the Safran group (PAR: SAF), is a leading supplier of explosives and narcotics and chemical, biological, radiological, and nuclear (CBRN) detection systems for government, military, air and ground transportation, first responder, critical infrastructure and other high-risk organizations.



Chemical Warfare agents and biological Warfare agents detection systems of **Proengin** are based on flame spectrometry. Proengin is the only company using this technology to manufacture field usable chemical and biological detectors. This unique technology allows detecting the widest range of toxic products with the following features: Simultaneity, Rapidity, Reliability and MTBF 4500 hours.



Smiths Detection leads the global military and emergency response marketplace with specialized chemical, biological, radiological, nuclear and explosive (CBRNE) detection and protection solutions. Our advanced, accurate and trusted solutions enable armed forces and responders to mitigate incidents with confidence as they seek to reduce risks and minimize potential losses associated with growing CBRNE threats.



Trelleborg Protective Products is a leading Global designer & manufacturer of Chemical Protective Ensembles (including five certified to NFPA 1991-2005), Shelters, Hoods and Dry Suits. Trelleborg's products are sold under the brand names of "Trellchem", "Viking" & "TrellTent" and have been re-defining PPE & Hazmat Diving for over 100 years."



Novare Technology serves as an independent sales agent for SEER Technology, the developer and manufacturer of the AccuSense Chemical Recognition System and the NAVISEER Precision Personnel Tracking System. As a SEER Solutions Specialist the company represents SEER products exclusively in order to focus on bringing maximum value to end users of instrumentation for chemical detection and personnel tracking. www.seertechnology.com



Save precious lives and valuable time by sending a robot downrange first. **QinetiQ** North America's TALON® Hazmat robot can "plug and play" up to seven detection instruments for WMD, radiation, gas, explosives and temperature mounted on a quick-release tray.

Visit www.talonrobots.com for further information.



STERIS Corporation's Defense & Aerospace group provides complete technology solutions for the decontamination of chemical and biological weapon agents and infectious organisms. In collaboration with the U.S. Department of Defense, STERIS has developed, tested and demonstrated a broad spectrum of dry, liquid and gaseous chem bio decontaminants and delivery systems designed for military applications.



Since 1961, **TSI** has provided instrumentation to industry, government, and researchers. TSI has 20+ years of experience in mask testing and biodefense, with systems used by government and military organizations in over a dozen countries. TSI products have been deployed in every major military operation since Operation Desert Shield..



FOR EXHIBITION AND SPONSORSHIP INFORMATION, PLEASE CONTACT DAVID LEVITT.

david.levitt@cbrneworld.com

Event Floorplan



KEY

Food & Beverage Area

xxx

Exhibition Stand

Exhibitor list and stand numbers

ABB Analytical Measurement	504	ICX Technologies	206
Ahura (Thermo Scientific)	211	Idaho Technology	210
Air Techniques International	107	Inficon	507
Airboss Defense	302	Intelagard	405
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ANP Technologies	510	Lion Apparel	100
Argon Electronics	407	Lockheed Martin	514 & 516
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HDT Engineered Technologies	304	US Naval Research Agency	111
Honeywell Safety	108	Utilis	413
Hot Zone /IB Consult	415	Wel-Fab	200 & 202
Hygie Tech	105	Zephyr Technology	312



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Please choose your relevant delegate package below. Fees include, full access to all conference sessions and exhibition areas for Wednesday 3 and Thursday 4 November; conference materials, all refreshments during the conference, drinks reception Wednesday 3 November and the demonstration on Friday 5 November

Accommodation and dinners are not included. Concessionary government/conference hotel rates available.
Go to www.icbrnevents.com

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Pre-Conference Workshop - Medical Countermeasures and CBRN

CBRNe Convergence will also host an optional pre-conference workshop (available only to delegates) on the afternoon of Tuesday 2nd November. The additional cost of the workshop is \$450 / €375, which will be added to your delegate fee.

☐ Yes, I would like to attend the workshop

Currency option

Please indicate your preferred currency: ☐ Euros ☐ Dollars

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If you are interested in exhibiting at CBRNE Convergence please tick here and we will contact you with details. ☐

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If you have any special requirements with regard to your diet, please tick below. Please be very specific.

☐ Vegetarian (eat fish) ☐ Vegetarian (do not eat fish) ☐ Vegan
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